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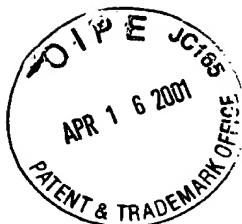
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GP164.8
Box/Seq
PATENT

#11
Amdt. C
w/Seq. list
4/24/01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Gras-Masse et al.

Examiner: S. Foley

Serial No.: 09/555,780

Group Art Unit: 1648

Filed: June 2, 2000

Docket: 1091-2 PCT/US

For: MIXED LIPOPEPTIDE NICELLES
FOR INDUCING AN IMMUNE
RESPONSE AND THEIR
THERAPEUTIC USES

Dated: April 13, 2001

RECEIVED

APR 18 2001

TECH CENTER 1600/2900

Assistant Commissioner for Patents
Washington, DC 20231

*I hereby certify this correspondence is being deposited
with the United States Postal Service as first class
mail, postpaid in an envelope, addressed to: Assistant
Commissioner for Patents, Washington, D.C.
20231 on April 13, 2001*

Signature: _____

Joyce Peterson

**AMENDMENT IN RESPONSE TO NOTICE TO COMPLY WITH
REQUIREMENTS FOR PATENT APPLICATIONS
CONTAINING NUCLEOTIDE SEQUENCE AND/OR
AMINO ACID SEQUENCE DISCLOSURES**

Sir:

In response to the Notice to Comply with Requirements for Patent Applications
Containing Nucleotide Sequence and/or Amino Acid Sequence Disclosures mailed April 3,
2001, Applicants enclose herewith the following:

1. Diskette containing a substitute Sequence Listing in computer-readable form,
corrected as directed in the Notice;
2. A substitute paper copy of the "Sequence Listing"; and
3. A copy of the Notice.

Applicants have amended the Sequence Listing to comply with the above-referenced
Notice. Entry of the amended Sequence Listing into the specification of the application is
respectfully requested.

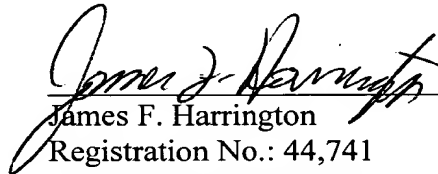
Applicants: Gras-Masse, et al.
Serial No. 09/555,780
Filed: June 2, 2001
Page 2



The content of the paper and computer-readable copies of the Sequence Listing are the same. Also, the amendment as required by the Notice, merely corrects clerical errors, and does not add any new matter. The sequence information is not changed in any way.

If any additional fees are due or an overpayment has been made, please charge our Deposit Account No. 08-2461 or credit our Deposit Account for such sum. A duplicate copy of this sheet is enclosed for that purpose.

Respectfully submitted,


James F. Harrington
Registration No.: 44,741
Attorney for Applicants

HOFFMANN & BARON, LLP
6900 Jericho Turnpike
Syosset, New York 11791
(516) 822-3550
JFH/jp

131685_1.DOC



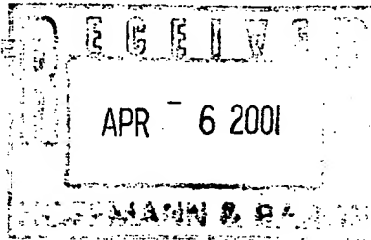
UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
09/555,780	11/17/00 06/02/00	GRAS-MASSE	H 1091/2 PCT/US

IRVING N FEIT
HOFFMANN & BARON
6900 JERICHO TURNPIKE
SYOSSET NY 11791

HM12/0403



EXAMINER

FOLEY, S

ART UNIT	PAPER NUMBER
1648	60

DATE MAILED: 04/03/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office

Address: ASSISTANT COMMISSIONER FOR PATENTS

Washington, D.C. 20231

APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR /	ATTORNEY DOCKET NO.
09/555780	6/2/2000	GRAS-MASSE PATENT IN REEXAMINATION	1091-2 PCT/US

EXAMINER

SHANON FOLEY

ART UNIT

PAPER

1648

10

DATE MAILED:

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

The communication filed 3/12/01 is not fully responsive to the Office communication mailed 2/8/01 for the reason(s) set forth on the attached Notice To Comply With The Sequence Rules or CRF Diskette Problem Report. Applicant must comply with the requirements of the sequence rules (37 CFR 1.821 - 1.825) before the application can be examined under 35 U.S.C. §§ 131 and 132.

Since the above-mentioned reply appears to be *bona fide* attempt to comply with the requirements of the sequence rules (37 CFR 1.821 - 1.825), applicant is given a TIME PERIOD of **ONE (1) MONTH** from the mailing date of this communication within which to correct the deficiency so as to comply with the sequence rules (37 CFR 1.821 - 1.825) in order to avoid abandonment of the application under 37 CFR 1.821(g). **EXTENSIONS OF THIS TIME PERIOD MAY BE GRANTED UNDER 37 CFR 1.136(a).**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shanon Foley whose telephone number is (703) 308-3983.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Housel, can be reached on (703) 308-4027. The fax phone number for this Group is now (703) 308-4242.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0196.

April 2, 2001

Mary Mosher

MARY E. MOSHER
PRIMARY EXAMINER
GROUP 1800

16a

Application No.: 09/555780

**NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING
NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES**

Applicant must file the items indicated below within the time period set the Office action to which the Notice is attached to avoid abandonment under 35 U.S.C. § 133 (extensions of time may be obtained under the provisions of 37 CFR 1.136(a)).

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

- ☒ 1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.
- ☐ 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
- ☐ 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
- ☒ 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."
- ☐ 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
- ☐ 6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
- ☐ 7. Other: _____

Applicant Must Provide:

- ☒ An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
- ☐ An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
- ☒ A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

For Rules Interpretation, call (703) 308-4216

For CRF Submission Help, call (703) 308-4212

PatentIn Software Program Support (SIRA)

Technical Assistance.....703-287-0200

To Purchase PatentIn Software.....703-306-2600

PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR RESPONSE

**RAW SEQUENCE LISTING
ERROR REPORT**

BIOTECHNOLOGY
SYSTEMS
BRANCH

RECEIVED
MAR 01 2001
102900

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/555,780A
Source: 1648
Date Processed by STIC: 2/20/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER
VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW.

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/555,780A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".

- 2 Wrapped Aminos The amino acid number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".

- 3 Incorrect Line Length The rules require that a line not exceed 72 characters in length. This includes spaces.

- 4 Misaligned Amino Acid The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs
Numbering between the numbering. It is recommended to delete any tabs and use spacing between the numbers.

- 5 Non-ASCII This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.

- 6 Variable Length Sequence(s) contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and
indicate in the (ix) feature section that some may be missing.

- 7 PatentIn ver. 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
sequence(s) . Normally, PatentIn would automatically generate this section from the
previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section
to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223>
sections for Artificial or Unknown sequences.

- 8 Skipped Sequences Sequence(s) missing. If intentional, please use the following format for each skipped sequence:
(OLD RULES) (2) INFORMATION FOR SEQ ID NO:X:
 (i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
 This sequence is intentionally skipped

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).

- 9 Skipped Sequences Sequence(s) missing. If intentional, please use the following format for each skipped sequence.
(NEW RULES) <210> sequence id number
 <400> sequence id number
 000

- 10 Use of n's or Xaa's Use of n's and/or Xaa's have been detected in the Sequence Listing.
(NEW RULES) Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

- 11 Use of <213>Organism Sequence(s) are missing this mandatory field or its response.
(NEW RULES)

- 12 Use of <220>Feature Sequence(s) are missing the <220>Feature and associated headings.
(NEW RULES) Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)

- 13 PatentIn ver. 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted
"file," resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).
Instead, please use "File Manager" or any other means to copy file to floppy disk.

1648

RAW SEQUENCE LISTING DATE: 02/20/2001
 PATENT APPLICATION: US/09/555,780A TIME: 17:33:36

Input Set : A:\Pto.txt
 Output Set: N:\CRF3\02202001\1555780A.raw

Does Not Comply
 Corrected Diskette Needed

error throughout

3 <110> APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE M
 4 CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (C.N.
 5 INSTITUT PASTEUR DE LILLE
 6 GRAS-MASSE, Helene
 7 BOSSUS, Marc
 8 LIPPENS, Guy
 9 WIERUSZESKI, Jean-Michel
 10 TARTAR, Andre
 11 GUILLET, Jean-Gerard
 12 BOURGAULT-VILLADA, Isabelle
 14 <120> TITLE OF INVENTION: Mixed lipopeptide micelles for inducing an immune
 15 response and their therapeutic uses.
 17 <130> FILE REFERENCE: Lipopeptides-INSERM
 OK 19 <140> CURRENT APPLICATION NUMBER: US/09/555,780A
 20 <141> CURRENT FILING DATE: 2000-11-17
 22 <150> PRIOR APPLICATION NUMBER: FR9715246
 23 <151> PRIOR FILING DATE: 1997-12-03
 E--> 25 <160> NUMBER OF SEQ ID NOS: 284 *285 in file (p.9)*
 27 <170> SOFTWARE: PatentIn Ver. 2.1

ERRORED SEQUENCES

40 <210> SEQ ID NO: 2
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 45 <220> FEATURE:
 46 <221> NAME/KEY: LIPID
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 E--> 53 1 5 10 15
 55 Lys Ala Ala Val Asp Leu Ser His Phe Leu Lys Glu Lys Gly Gly
 E--> 56 Leu
 E--> 57 20 25 30
 59 Lys
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*format error - see
 item 2
 on Error
 Summary Sheet*

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/555,780A

DATE: 02/20/2001
 TIME: 17:33:36

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74 <400> SEQUENCE: 3
75 Thr Gln Gly Tyr Phe Pro Asp Trp Gln Asn Tyr Thr Pro Gly Pro
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E--> 80 Lys
E--> 81 20 25 30
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90 <212> TYPE: PRT
91 <213> ORGANISM: Human immunodeficiency virus
93 <220> FEATURE:
94 <221> NAME/KEY: LIPID
95 <222> LOCATION: (25)
96 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE
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E--> 100 Glu
E--> 101 1 5 10 15
103 Leu His Pro Glu Tyr Phe Lys Asn Lys
E--> 104 20 25
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114 <221> NAME/KEY: LIPID
115 <222> LOCATION: (33)
116 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE
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119 Asp Leu Asn Thr Met Leu Asn Thr Val Gly Gly His Gln Ala Ala
E--> 120 Met
E--> 121 1 5 10 15
123 Gln Met Leu Lys Glu Thr Ile Asn Glu Glu Ala Ala Glu Trp Asp
E--> 124 Arg
E--> 125 20 25 30
127 Lys
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134 <212> TYPE: PRT
135 <213> ORGANISM: Human immunodeficiency virus
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140 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE
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E--> 144 Leu
E--> 145 1 5 10 15

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same error

same

same

same

same

RAW SEQUENCE LISTING DATE: 02/20/2001
 PATENT APPLICATION: US/09/555,780A TIME: 17:33:36

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147 Gly Leu Asn Lys Ile Val Arg Met Tyr Ser Pro Thr Ser Ile Leu

E--> 148 Asp

E--> 149 20 25 30

151 Lys

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162 <221> NAME/KEY: LIPID

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164 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE

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E--> 168 Gly

E--> 169 1 5 10 15

171 Arg Ala Phe Tyr Ala Thr Gly Glu Ile Ile Gly Asp Ile Arg Gln

E--> 172 Ala

E--> 173 20 25 30

175 His Lys

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347 <212> TYPE: PRT

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351 <221> NAME/KEY: LIPID

352 <222> LOCATION: (27)

353 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE

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E--> 358 Ala

E--> 359 1 5 10 15

361 Ile Asp Met Ser His Phe Ile Lys Glu Lys Lys

E--> 362 20 25

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368 <212> TYPE: PRT

369 <213> ORGANISM: Simian immunodeficiency virus

371 <220> FEATURE:

372 <221> NAME/KEY: LIPID

373 <222> LOCATION: (24)

374 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE

376 <400> SEQUENCE: 24

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E--> 378 Arg

E--> 379 1 5 10 15

381 Ile Leu Asp Met Tyr Leu Glu Lys

E--> 382 20

386 <210> SEQ ID NO: 25

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/555,780A

DATE: 02/20/2001

TIME: 17:33:36

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Output Set: N:\CRF3\02202001\I555780A.raw

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392 <222> LOCATION: (25)
393 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE
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E--> 398 1 5 10 15
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E--> 401 20 25
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413 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE
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E--> 418 1 5 10 15
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432 <222> LOCATION: (28)
433 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE
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E--> 437 Ser
E--> 438 1 5 10 15
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448 <213> ORGANISM: Simian immunodeficiency virus
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451 <221> NAME/KEY: LIPID
452 <222> LOCATION: (32)
453 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE

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*same**same**same*

RAW SEQUENCE LISTING

DATE: 02/26/2001

PATENT APPLICATION: US/09/555,780A

TIME: 17:33:26

Input Set : A:\Pto.txt

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E--> 457 Gly
E--> 458 1 5 10 15
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E--> 461 Lys
E--> 462 20 25 30
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475 <221> NAME/KEY: LIPID
476 <222> LOCATION: (37)
477 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE
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480 Gln Ile Gln Trp Met Tyr Arg Gln Gln Asn Pro Ile Val Gly Asn
E--> 481 Ile
E--> 482 1 5 10 15
484 Tyr Arg Arg Trp Ile Gln Leu Gly Leu Gln Lys Cys Val Arg Met
E--> 485 Tyr
E--> 486 20 25 30
488 Asn Pro Thr Asn Lys
E--> 489 35
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495 <212> TYPE: PRT
496 <213> ORGANISM: Simian immunodeficiency virus
498 <220> FEATURE:
499 <221> NAME/KEY: LIPID
500 <222> LOCATION: (18)
501 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE
503 <220> FEATURE:
W--> 504 <221> NAME/KEY: MOS_RES mod-RES
505 <222> LOCATION: (1)
506 <223> OTHER INFORMATION: ACETYLATION
508 <400> SEQUENCE: 30
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E--> 510 Lys
E--> 511 1 5 10 15
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519 <211> LENGTH: 20
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524 <221> NAME/KEY: LIPID
525 <222> LOCATION: (20)
526 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE

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*same**same**same*

RAW SEQUENCE LISTING DATE: 02/20/2001
 PATENT APPLICATION: US/09/555,780A TIME: 17:33:36

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 Output Set: N:\CRF3\02202001\I555780A.raw

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E--> 530 Lys
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533 His Ile Val Lys
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540 <212> TYPE: PRI
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543 <220> FEATURE:
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545 <222> LOCATION: (32)
546 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE
548 <400> SEQUENCE: 32
549 Ala Ile Phe Gln Ser Ser Met Thr Lys Ile Leu Glu Pro Phe Arg
E--> 550 Lys
E--> 551 1 5 10 15
553 Gln Asn Pro Asp Ile Val Ile Tyr Gln Tyr Met Asp Asp Leu Tyr
E--> 554 Lys
E--> 555 20 25 30
562 <210> SEQ ID NO: 33
563 <211> LENGTH: 31
564 <212> TYPE: PRI
565 <213> ORGANISM: Human immunodeficiency virus
567 <220> FEATURE:
568 <221> NAME/KEY: LIPID
569 <222> LOCATION: (31)
570 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE
572 <400> SEQUENCE: 33
573 His Thr Gln Gly Tyr Phe Pro Asp Trp Gln Asn Tyr Thr Pro Gly
E--> 574 Pro
E--> 575 1 5 10 15
577 Gly Val Arg Tyr Pro Leu Thr Phe Gly Trp Leu Tyr Lys Leu Lys
E--> 578 20 25 30
582 <210> SEQ ID NO: 34
583 <211> LENGTH: 21
584 <212> TYPE: PRT
585 <213> ORGANISM: Plasmodium falciparum
587 <220> FEATURE:
588 <221> NAME/KEY: LIPID
589 <222> LOCATION: (21)
590 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE
592 <400> SEQUENCE: 34
593 Leu Leu Ser Asn Ile Glu Glu Pro Lys Glu Asn Ile Ile Asp Asn
E--> 594 Leu
E--> 595 1 5 10 15
597 Leu Asn Asn Ile Lys
E--> 598 20

```

same

same

same

same

RAW SEQUENCE LISTING

DATE: 02/20/2001

PATIENT APPLICATION: US/09/555,780A

TIME: 17:33:36

Input Set : A:\Pto.txt

Output Set: N:\CRF3\02202001\I555780A.raw

602 <210> SEQ ID NO: 35
 603 <211> LENGTH: 27
 604 <212> TYPE: PRT
 605 <213> ORGANISM: Plasmodium falciparum
 607 <220> FEATURE:
 608 <221> NAME/KEY: LIPID
 609 <222> LOCATION: (27)
 610 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE
 612 <220> FEATURE:
 613 <221> NAME/KEY: MOD_RES
 614 <222> LOCATION: (1)
 615 <223> OTHER INFORMATION: ACETYLATION
 617 <400> SEQUENCE: 35
 618 Asp Glu Leu Phe Asn Glu Leu Leu Asn Ser Val Asp Val Asn Gly

E--> 619 Glu
 E--> 620 1 5 10 15
 622 Val Lys Glu Asn Ile Leu Glu Glu Ser Gln Lys
 E--> 623 20 25

627 <210> SEQ ID NO: 36
 628 <211> LENGTH: 27
 629 <212> TYPE: PRT
 630 <213> ORGANISM: Plasmodium falciparum
 632 <220> FEATURE:
 633 <221> NAME/KEY: LIPID
 634 <222> LOCATION: (27)
 635 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE
 637 <220> FEATURE:
 638 <221> NAME/KEY: MOD_RES
 639 <222> LOCATION: (1)
 640 <223> OTHER INFORMATION: ACETYLATION
 642 <400> SEQUENCE: 36
 643 Leu Glu Glu Ser Gln Val Asn Asp Asp Ile Phe Asn Ser Leu Val

E--> 644 Lys
 E--> 645 1 5 10 15
 647 Ser Val Gln Gln Glu Gln Gln His Asn Val Lys
 E--> 648 20 25

1850 <210> SEQ ID NO: 144
 1851 <211> LENGTH: 9 *10 shown*
 1852 <212> TYPE: PRT
 1853 <213> ORGANISM: Human immunodeficiency virus type 1
 1855 <400> SEQUENCE: 144
 1856 Glu Leu Val Asn Gln Ile Ile Glu Gln Leu

E--> 1857 1 5 *10 ← insert*
 2235 <210> SEQ ID NO: 179
 2236 <211> LENGTH: 8 *9*
 2237 <212> TYPE: PRT
 2238 <213> ORGANISM: Human immunodeficiency virus type 1
 2240 <400> SEQUENCE: 179
 2241 Arg Tyr Leu Lys Asp Gln Gln Leu Leu

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/555,780A

DATE: 02/20/2001

TIME: 17:33:36

Input Set : A:\Pto.txt

Output Set: N:\CRF3\02202001\I555780A.raw

E--> 2242 1 5
2862 <210> SEQ ID NO: 236
2863 <211> LENGTH: 11/10
2864 <212> TYPE: PRT
2865 <213> ORGANISM: Human immunodeficiency virus type 1
2867 <400> SEQUENCE: 236
2868 Val Pro Val Trp Lys Glu Ala Thr Thr Thr
E--> 2869 1 5 10
3403 <210> SEQ ID NO: 285
3404 <211> LENGTH: 9
3405 <212> TYPE: PRT
3406 <213> ORGANISM: Epstein-Barr virus
E--> 3408 <400> SEQUENCE: 284
3409 Ile Val Thr Asp Phe Ser Val Ile Lys
3410 1 5
E--> 341 57

*see next page for
explanation*

<210> 285

<211> 9

<212> PRT

<213> Epstein-Barr virus

<400> 285 ← insert number

Ile Val Thr Asp Phe Ser Val Ile Lys

1

5

(57) delete at end of file

VERIFICATION SUMMARY

DATE: 02/20/2001

PATENT APPLICATION: US/09/555,780A

TIME: 17:33:38

Input Set : A:\Pto.txt

Output Set: N:\CRF3\02202001\I555780A.raw

L:19 M:270 C: Current Application Number differs, Replaced Current Application Number
L:20 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:52 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
M:332 Repeated in SeqNo=2
L:76 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
M:332 Repeated in SeqNo=3
L:100 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
M:332 Repeated in SeqNo=4
L:120 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5
M:332 Repeated in SeqNo=5
L:144 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:6
M:332 Repeated in SeqNo=6
L:168 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:7
M:332 Repeated in SeqNo=7
L:358 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:23
M:332 Repeated in SeqNo=23
L:378 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:24
M:332 Repeated in SeqNo=24
L:390 M:283 W: Missing Blank Line separator, <220> field identifier
L:397 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:25
M:332 Repeated in SeqNo=25
L:417 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:26
M:332 Repeated in SeqNo=26
L:437 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:27
M:332 Repeated in SeqNo=27
L:457 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:28
M:332 Repeated in SeqNo=28
L:481 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:29
M:332 Repeated in SeqNo=29
L:504 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:30
L:510 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:30
M:332 Repeated in SeqNo=30
L:530 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:31
M:332 Repeated in SeqNo=31
L:550 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:32
M:332 Repeated in SeqNo=32
L:574 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:33
M:332 Repeated in SeqNo=33
L:594 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:34
M:332 Repeated in SeqNo=34
L:619 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:35
M:332 Repeated in SeqNo=35
L:644 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:36
M:332 Repeated in SeqNo=36
L:664 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:37
M:332 Repeated in SeqNo=37
L:1640 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:125
M:332 Repeated in SeqNo=125

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/555,780A

DATE: 02/20/2001

TIME: 17:33:38

Input Set : A:\Pto.txt

Output Set: N:\CRF3\02202001\I555780A.raw

L:1666 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:127
M:332 Repeated in SeqNo=127
L:1857 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:144
L:1857 M:252 E: No. of Seq. differs, <211>LENGTH:Input:9 Found:10 SEQ:144
L:2242 M:252 E: No. of Seq. differs, <211>LENGTH:Input:8 Found:9 SEQ:179
L:2869 M:252 E: No. of Seq. differs, <211>LENGTH:Input:11 Found:10 SEQ:236
L:3386 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:293
M:332 Repeated in SeqNo=293
L:3408 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:285 differs:284
L:3414 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:0
L:25 M:203 E: No. of Seq. differs, <160> Number Of Sequences:Input (234) Counted (285)